

Message Text

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TAGS: CCMS, SENV

SUBJECT: CCMS - ITALIAN REPORT FOR 3RD CCMS SOLAR ENERGY
REPORT

1. PLEASE PASS FOLLOWING REPORT TO DR. MORSE, ERDA
SOLAR DIVISION AND DR. ALLEN, UNIVERSITY OF MARYLAND FOR
EDITING AND INCLUSION IN COPENHAGE MEETING REPORT. REPORT
DRAFTED BY PROFESSOR SILVESTRI OF CNR.

2. BEGIN TEXT. THE R AND D PROGRAM ON SOLAR ENERGY,
SPONSORED BY THE CNR (COUNIGLIO NARZIONALE DELLE RICERCHE)
DURING 1976 WAS DELAYED BY THE GOVERNMENT, WHO IMPOSED
THAT THE PROGRAM BE CONNECTED WITH THE SAME PROGRAM
SPONSORED BY THE EEC. THEREFORE START OF THE NATIONAL
PROGRAM WAS DELAYED UNTIL CONTRACTS BETWEEN ITALIAN
AGENCIES (UNIVERSITIES, COMPANIES ETC) AND THE EEC
COMMISSION WERE DEFINED. THIS HAPPENED JUST A FEW WEEKS
AGO. FOR 1976 (REALY THE LAST THREE MONTHS) A TOTAL
OF ABOUT 300,000 DOLLARS WAS ALLOCATED, WITH AN ADDITION
OF 150,000 DOLLARS FROM THE EEC. THE PROGRAM WILL GO
AHEAD IN 1977 AND AFTER, WITH AN ANNUAL EXPENDITURE
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OF ABOUT 1,000,000 DOLLARS OR MORE (POSSIBLE).

3. MOST OF THE CNR PROGRAM IS CENTERED ON TOPICS,
WHICH ARE BASIC IN PRINCIPLE. THEY ARE:

A) COLLECTION AND/OR RETRIEVAL OF CLIMATE DATA
TO DEFINE ZONES, IN WHICH SOLAR ENERGY CAN BE USED AT
MINIMUM CAPITAL COSTS FOR HEATING AND (POSSIBLE) COOLING
BUILDINGS.

B) SYSTEMATIC STUDY OF A SOLAR ENERGY ACTIVATED
SYSTEM FOR HEATING PROPOSES, TAKING INTO ACCOUNT THE
URBAN STRUCTURE OF ITALY (MANY APARTMENT HOUSES, VERY
FEW SINGLE FAMILY ONE OR TWO FLOOR HOUSES)

C) EXAMINATION OF CRITICAL COMPONENTS OF THE
SYSTEM (COLLECTORS, STORAGE SYSTEMS, PIPING, CONTROL
PANELS, BACK-UP SYSTEMS).

D) SUMMER REFRIGERATION OF BUILDINGS THROUGH
RADIATION BY NIGHT (WITH RELATED COLD STORAGE SYSTEMS).
EFFORT DEVOTED TO USE OF SOLAR ENERGY FOR HEATING
AND COOLING OF BUILDINGS IS RESPONSIBLE FOR 75 PERCENT
OF TOTAL EXPENDITURE (NOW AND IN FUTURE). WHAT REMAINS
IS DEVOTED TO PRODUCTION OF MECHANICAL AND/OR ELECTRICAL
ENERGY THROUGH EXPLOITATION OF SOLAR RADIATION. THE
EFFORT IS DIRECTED TOWARD TWO ACCOMPLISHMENTS:

A) COMPLETION OF A SMALL (15 RWE) POWER STATION,
WHOSE SOLAR SYSTEM HAS ALREADY BEING BUILT NEAR GENOVA
(S. THERIS), WITH A TOTAL MIRROR SURFACE AREA OF
200 SQUARE METERS. THE MIRRORS ARE MECHANICALLY
DRIVEN TO FOLLOW THE PATH OF THE SUN. TO COMPLETE
THE WORK, THE BOILER, THE TURBINE AND THE GENERATOR
MUST BE BUILT AND OPERATED

B) DIRECT CONVERSION OF SOLAR RADIATION TO
ELECTRICITY BY MEANS OF SOLAR CELLS, CAPABLE OF
WITHSTANDING HIGH FLUX RADIATION. IN SUCH A WAY
(WITH PTOCELLS, ALREADY UNDER DEVELOPMENT) CAPABLE
10W/CUR SQUARE, THE PHOTOCELLS NO LONGER REPRESENT
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THE EXPENSIVE ITEM IN THE CHAIN, AND SPECULER COLLECTORS
BECOME AGAIN THE ECONOMICAL BOTTLENECK.

4. ANYHOW, THE WORK IS STARTING JUST NOW, AND A
COMPREHENSIVE PICTURE WILL BE POSSIBLE ONLY AT THE
GENERAL MEETING TO BE HELD IN FEBRUARY 1977. END TEXT.
STREATOR

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